

APR 09 2002  
PATENT OFFICE

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Approved for use through 10/31/2002. OMB 0651-0032  
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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

## Complete if Known

Application Number 08/468,011  
Filing Date June 6, 1995  
First Named Inventor Soppet et al.  
Examiner Name S. Teng.  
Group Art Unit 1u46

#30

Total amount of payment \$100.00 Attorney Docket Number PF201

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 08-3425

Deposit Account Name Human Genome Sciences, Inc.

☒ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17  
☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:  
☐ Check ☐ Credit Card ☐ Money Order ☐ Other\*

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) \$0.00

### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
20**		\$18.00	
3**		\$84.00	
Multiple Dependent		\$280.00	

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
108	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) \$0.00

\*\* or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Fee Code	Large Entity Fee (\$)	Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use hearing	
140	110	240	55	Petition to revive - una	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Statement	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
145	100	145	100	Certificate of correction	
148	110	248	55	Statutory disclaimer	
561	3	561	3	Printed copy of patent, regular service	

Other fee (specify):  
Request for Certificate of Correction Pursuant to 37 C.F.R. § 1.323

Other fee (specify):

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) \$100.00

CERTIFICATE  
APR 15 2002  
OF CORRECTION

## Submitted By

Name (Print/Type) Janet M. Martineau

Registration No.: 46,903

Telephone (301) 315-2723

Signature:

Date: April 9, 2002

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Letters Patent of: Soppet, et al.

Attorney Docket No.: PF201

Patent No.: 6,030,804

Issued: February 29, 2000

Title: Polynucleotides Encoding G-Protein Parathyroid

Hormone Receptor HLTDG74 Polypeptides



**REQUEST FOR CERTIFICATE OF CORRECTION**  
**PURSUANT TO 37 C.F.R. § 1.323**

**Attn: Certificate of Correction Branch**  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Upon reviewing the above-identified patent, Patentees noted the following mistakes that should be corrected:

**Face Page**, under the heading "References Cited", and the subheading "OTHER PUBLICATIONS", please add the following references:

GenBank Accession No. U25128 (07-Jul-95)

GenBank Accession No. M74445 (27-May-92)

GeneSeq Accession No. R92276 (18-May-96)

GeneSeq Accession No. R92278 (18-May-96)

The cited references were inadvertently omitted from the face of the Patent due to clerical error. These references were brought to the attention of the Examiner in an Information Disclosure Statement and Form PTO-1449, filed on October 16, 1998, and acknowledged by the Examiner in the subsequent Notice of Allowance mailed on December 4, 1998, in the instant application. A copy of which is submitted herein.

Under [57], Abstract, line 9, please remove "PTH receptor receptor" and replace it with --PTH receptor--; and in line 11, please remove " PTH receptor receptor" and replace it with --PTH receptor--

01/10/2002 NROCH02 00000106 083425 6030804

03 F03145 100.00 CH

The above mistakes appear to be in the application as filed or amended by Patentees. Accordingly, it is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.323 be issued for the above-identified patent.

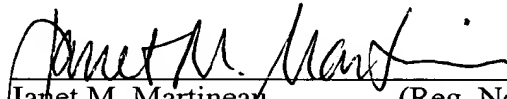
Patentees submit that the above mistakes occurred in good faith, and are either of a clerical or typographical nature, or of minor character. Patentees further submit that the requested corrections neither constitute new matter nor require reexamination.

Patentees hereby authorize the Commissioner to charge the required fee of \$100.00, and any other fee deemed necessary, to Deposit Account No. 08-3425, as itemized on the enclosed Fee Transmittal Sheet.

Submitted herewith are (a) a proposed Certificate of Correction (Form PTO/SB/44); and (b) a Fee Transmittal Sheet with appropriate fee (in duplicate). Patentees respectfully request the issuance of the Certificate of Correction.

Respectfully submitted,

Dated: April 9, 2002

  
Janet M. Martineau (Reg. No. 46,903)  
Attorney for Applicants

**Human Genome Sciences, Inc.**  
9410 Key West Avenue  
Rockville, MD 20850  
**Telephone: (301) 315-2723**

Enclosures

KKH/JMM/DS/mbp



US006030804A

# United States Patent [19]

Soppet et. al.

[11] Patent Number: 6,030,804  
[45] Date of Patent: \*Feb. 29, 2000

[54] **POLYNUCLEOTIDES ENCODING G-PROTEIN PARATHYROID HORMONE RECEPTOR HLTDG74 POLYPEPTIDES**

[75] Inventors: Daniel R. Soppet, Centreville, Va.; Yi Li, Gaithersburg, Md.; Craig A. Rosen, Laytonsville, Md.; Steven M. Ruben, Olney, Md.

[73] Assignee: Human Genome Sciences, Inc., Rockville, Md.

[\*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

[21] Appl. No.: 08/468,011

[22] Filed: Jun. 6, 1995

[51] Int. Cl.<sup>7</sup> ..... C12N 15/12; C07K 14/705

[52] U.S. Cl. .... 435/69.1; 435/252.3; 435/254.11; 435/325; 435/320.1; 536/23.5; 536/24.31

[58] Field of Search ..... 536/23.5, 24.31; 435/69.1, 325, 252.3, 254.11, 320.1

[56] References Cited

## PUBLICATIONS

Proc. Natl. Acad. Sci., USA, vol. 87, pp. 3052-3056, (Apr. 1990).

Science, vol. 244, pp. 569-572, (May 5, 1989).

FEBS 08897, vol. 271, No. 1, 2, pp. 81-84, (Oct. 1990).

The Journal of Biological Chemistry, vol. 265, No. 16, pp. 9308-9313, (Jan. 25, 1990).

FEBS 09821, vol. 284, pp. 155-160, (Jun. 1991).

The Journal of Biological Chemistry, vol. 270, No. 26, pp. 15455-15458, (1995).

Primary Examiner—Sally P. Teng

Attorney, Agent, or Firm—A. Anders Brookes

## [57] ABSTRACT

Human G-protein parathyroid hormone (PTH) receptor polypeptides and DNA (RNA) encoding such polypeptides and a procedure for producing such polypeptides by recombinant techniques is disclosed. Also disclosed are methods for utilizing such polypeptides for identifying antagonists and agonists to such polypeptides and methods of using the agonists and antagonists therapeutically to treat conditions related to the underexpression and overexpression of the PTH receptor polypeptides. Also disclosed are diagnostic methods for detecting a mutation in the PTH receptor polypeptides and detecting a level of the soluble form of the receptors in a sample derived from a host.

26 Claims, 10 Drawing Sheets

DELETE

GENBANK ACCESSION NO. U25128(07-JUL-95)  
GENBANK ACCESSION NO. M74445(27-MAY-92)  
GENSEQ ACCESSION NO. R92276 (18-MAY-96)  
GENSEQ ACCESSION NO. R92278 (18-MAY-96)

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,030,804  
DATED : February 29, 2000  
INVENTOR(S) : Daniel R. Soppet, Craig A. Rosen and Steven M. Ruben

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page.

Item [56], **References Cited**, under OTHER PUBLICATIONS, please add the following references:

- -- GenBank Accession No. U25128 (07-Jul-95)
- GenBank Accession No. M74445 (27-May-92)
- GeneSeq Accession No. R92276 (18-May-96)
- GeneSeq Accession No. R92278 (18-May-96) --

Item [57], **ABSTRACT**,

Line 9, please remove "PTH receptor receptor" and replace it with -- PTH receptor --; and

Line 11, please remove "PTH receptor receptor" and replace it with -- PTH receptor --

Signed and Sealed this

Twenty-seventh Day of August, 2002

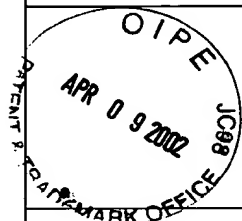
Attest:



Attesting Officer

JAMES E. ROGAN  
Director of the United States Patent and Trademark Office

(Also Form PTO-1050)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Patent No: **6,030,804**Issued Date: **February 29, 2000**Inventor(s): **Daniel R. Soppet, Craig A. Rosen,  
and Steven M. Ruben.**

It is certified that errors appear in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

~~Title~~ **Item (56)**  
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~~Item~~  
~~Under~~ [57], Abstract, line 9, please remove "PTH receptor receptor" and replace it with --PTH receptor--; and in line 11, please remove "PTH receptor receptor" and replace it with --PTH receptor--

Mailing Address of Sender:

**Agent Ref No: PF201**  
**Human Genome Sciences, Inc.**  
Legal Department  
9410 Key West Avenue  
Rockville, MD 20850

Patent No: **6,030,804**No. of additional copies: 0